

**EXPLANATION OF  
TCEQ COST ESTIMATE  
FOR REMEDIATION  
AT THE  
ASARCO COPPER SMELTER**

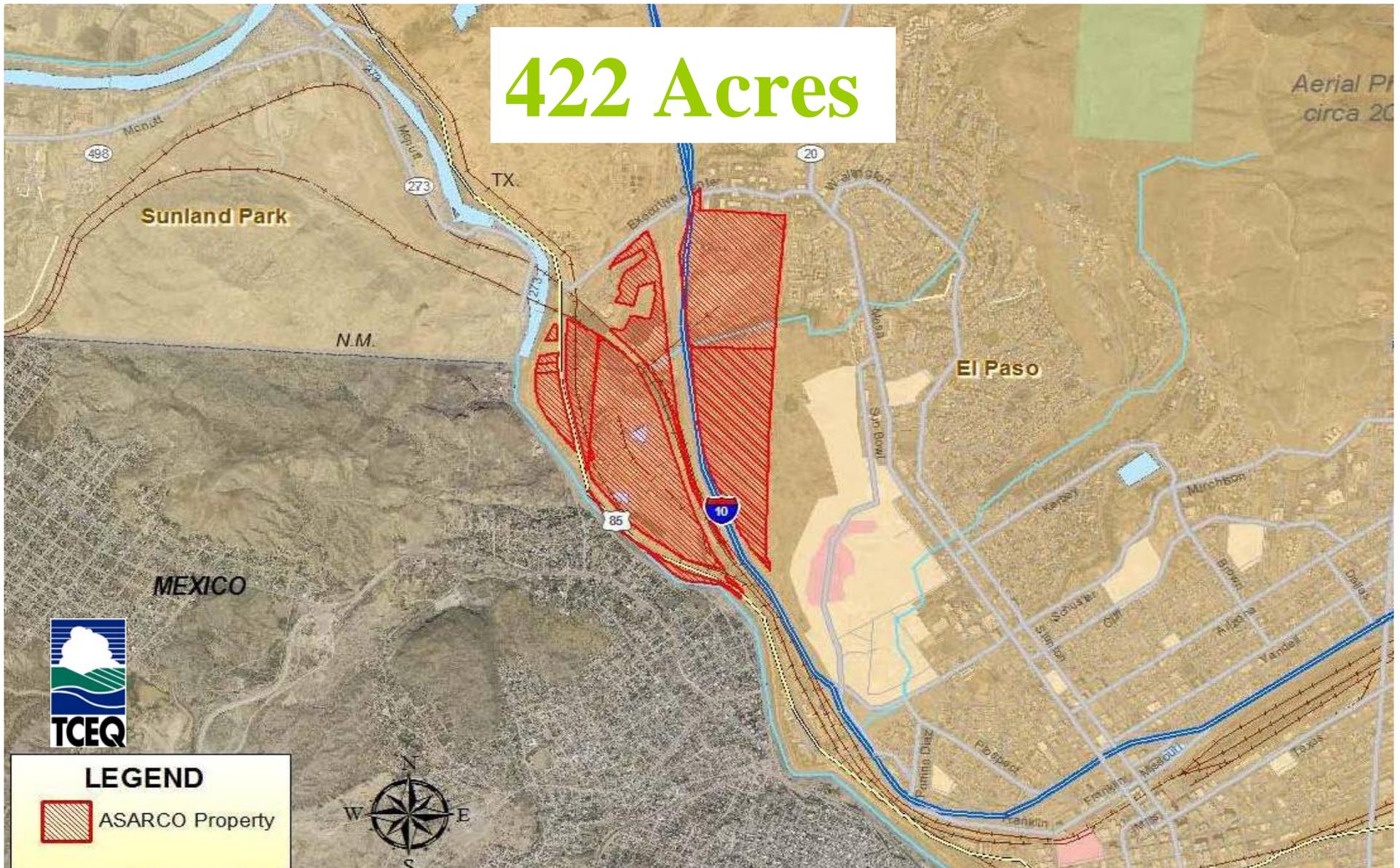
**EL PASO, TEXAS**



**May 11, 2009**

# THE ASARCO SITE

422 Acres



# THE CURRENT LAND USE IS COMMERCIAL/INDUSTRIAL



# **CLEAN UP STANDARD USED FOR THE ASARCO SITE IS COMMERCIAL/INDUSTRIAL**

This is determined by comparison to existing land use in accordance with 30 TAC Chapter 350, Texas Risk Reduction Program (TRRP).



# CHEMICALS OF CONCERN

- The elements which comprise the Chemicals of Concern (COCs) at the ASARCO site include arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), lead (Pb), selenium (Se) and zinc (Zn).
- The most prevalent COCs are arsenic, lead, and cadmium.



# REMEDICATION VS RESTORATION

- Remediation is the act of eliminating or reducing the concentration of chemicals of concern in environmental media.
- Restoration is returning an area to an unimpaired condition.



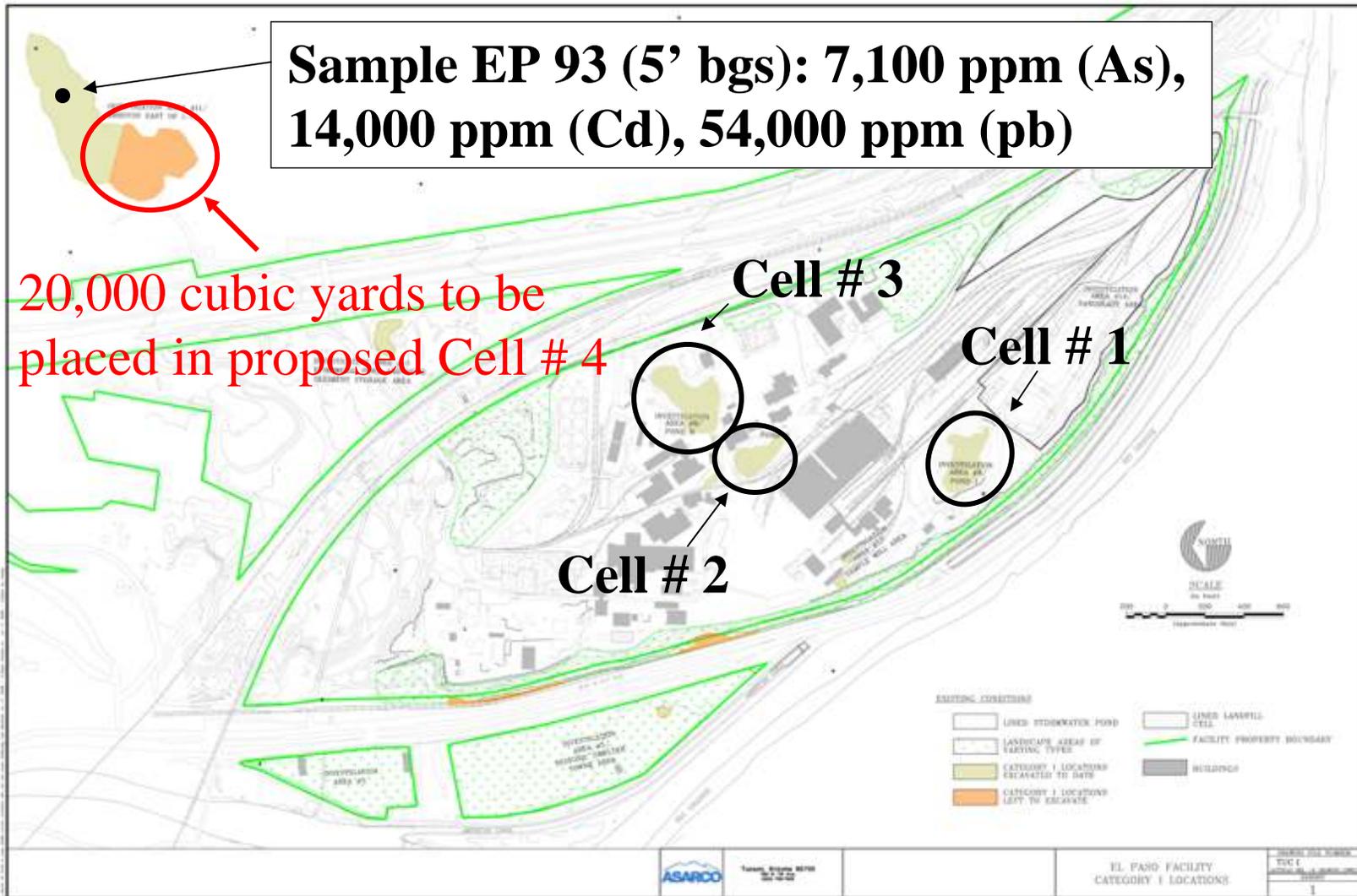
# TCEQ COST ESTIMATE FOR REMEDIATION AT ASARCO SITE

Demolition of Structures	\$ 8.9 Million
Asphalt Paving (75.50 acres)	\$ 9.8 Million
Construct Fourth Cell & Fence	\$ 5.9 Million
Groundwater Remediation	\$ 21.9 Million
Post Closure Care	\$ 3.3 Million
Other Expense	\$ 2.2 Million
Total	\$ 52.0 Million



# CATEGORY I MATERIAL

Defined as material that could impact human health and the environment



**EXCESS MATERIAL WILL BE  
RELOCATED TO PROPOSED  
CELL # 4**



**Existing Cell # 3**



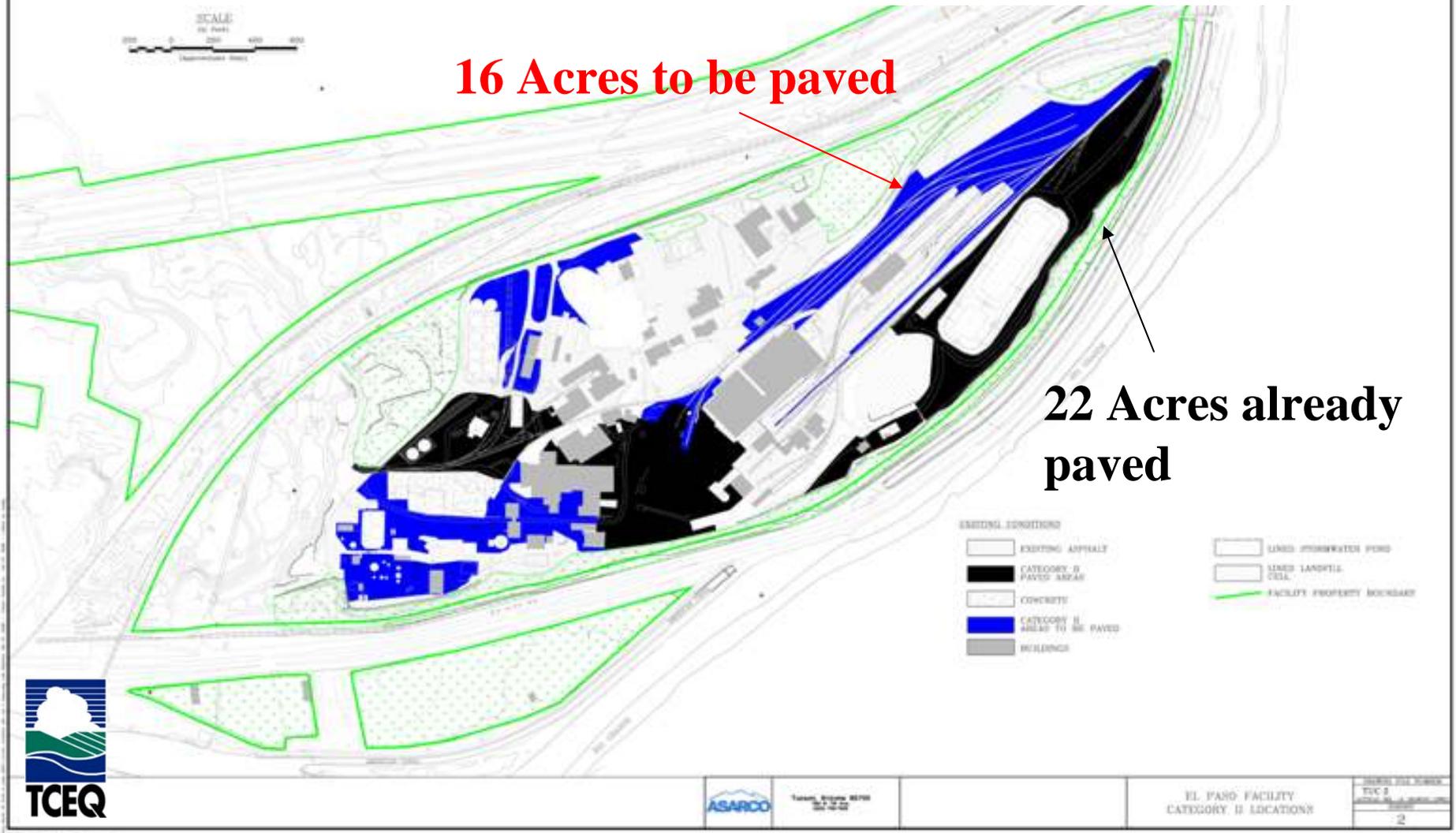
# PROPOSED CELL # 4

- Same design as current cells with a liner and drainage layer to prevent water from coming in contact with the buried material.
- 303,000 cubic yard capacity.
- Additional engineering study is needed to determine the proper location.

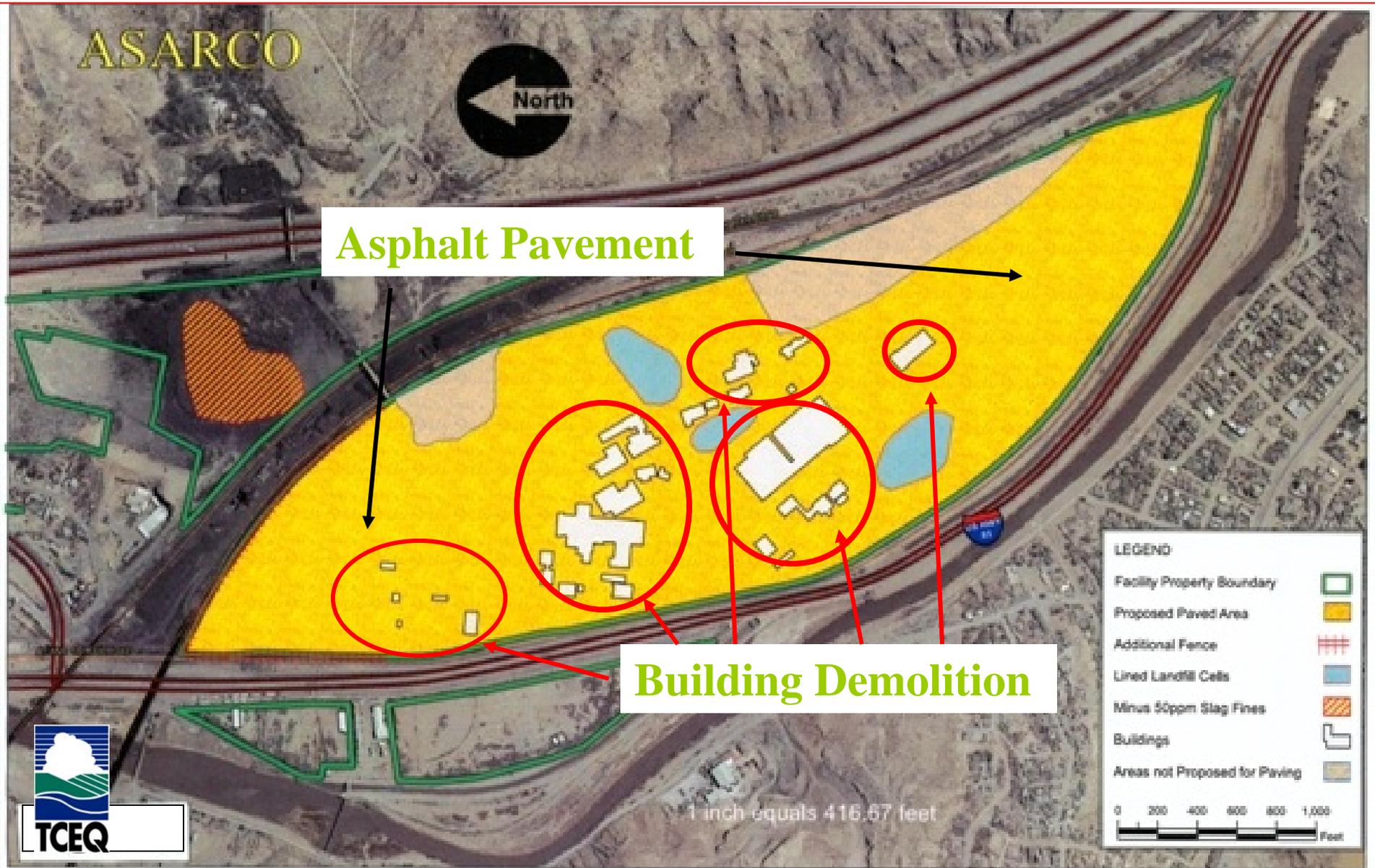


# CATEGORY II MATERIAL

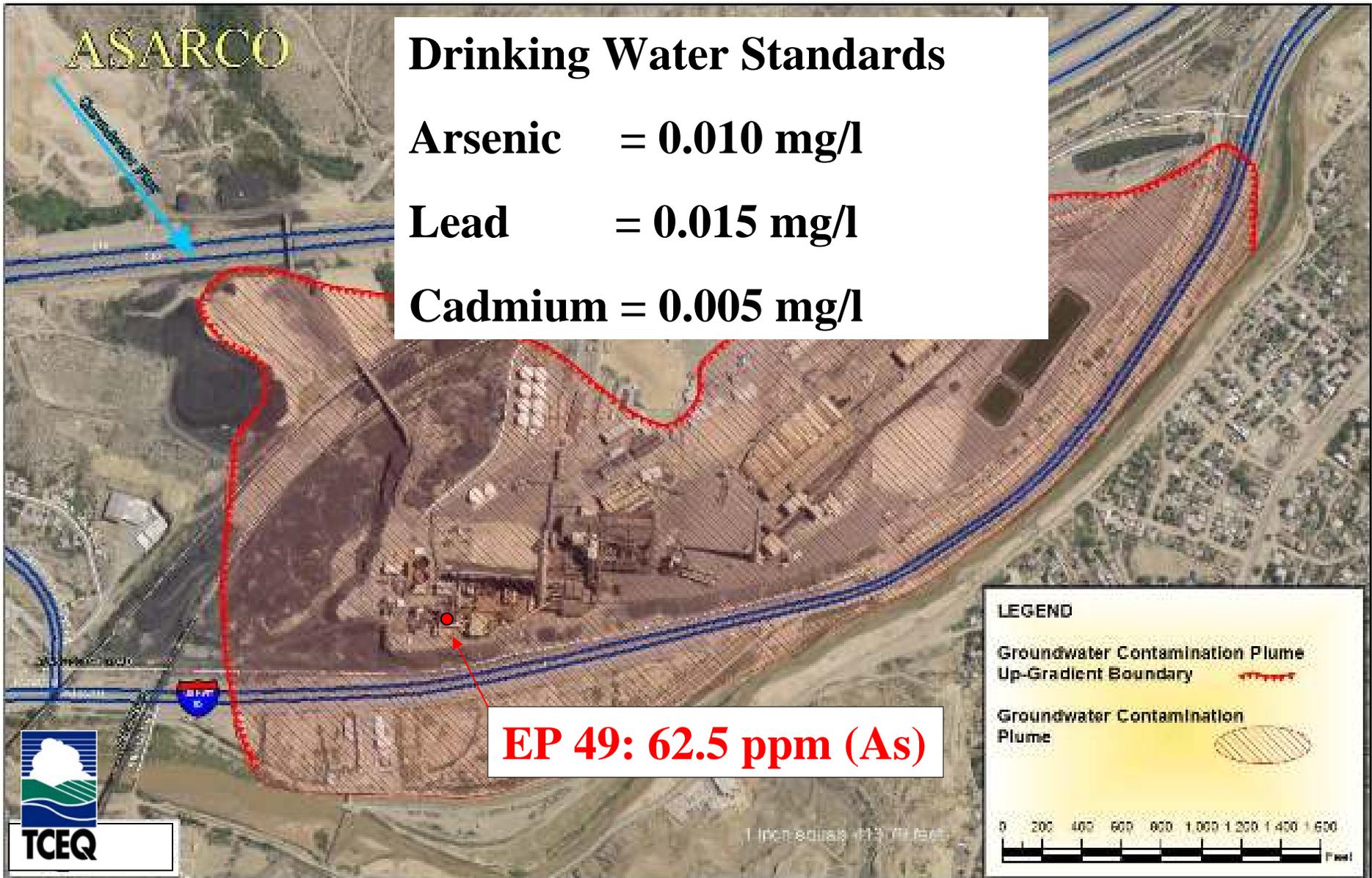
Defined as material that could impact the groundwater.



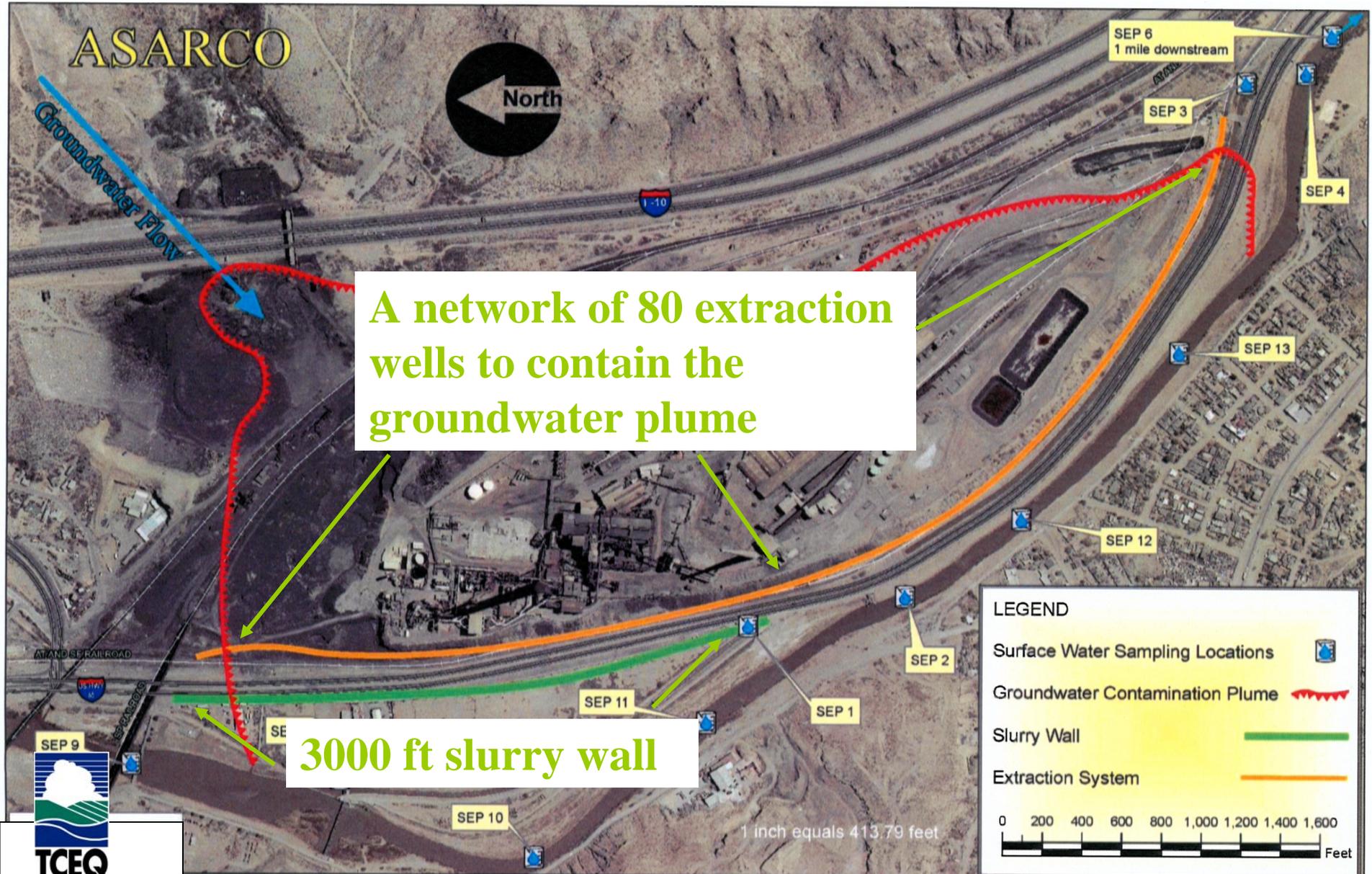
# DEMOLITION & PAVING



# GROUNDWATER PLUME



# GROUNDWATER CONTAINMENT



# ASARCO Property

- **Prior Approval** - the agreement with any custodial trustee will require the approval of TCEQ and DOJ before any sale, lease, or other disposition of the property.
- **Additional Funds** - the settlement agreement allows for funds from the proceeds of any sale of the property to be used for the remediation of the site as well as for administrative costs of the custodial trust.

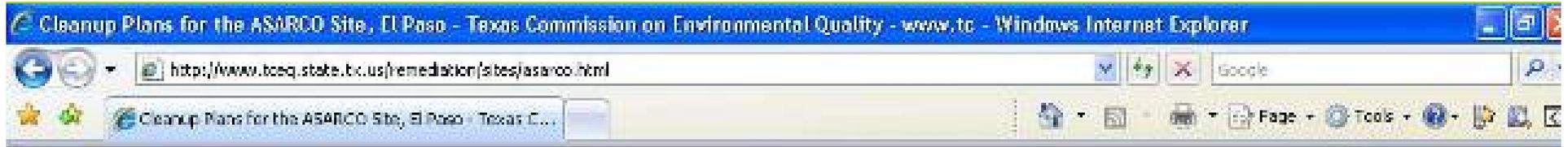


# Custodial Trustee

- ASARCO will appoint a trustee chosen by TCEQ and DOJ.
- In conjunction with DOJ, TCEQ is currently in the process of selecting a trustee. Please see the TCEQ ASARCO website for more information.
- The custodial trustee will implement & oversee the remediation at the site as well as manage the property in the custodial trust.



# ASARCO WEB SITE



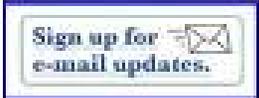
<http://www.tceq.state.tx.us/remediation/sites/asarco.html>

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[BACK TO:](#) Remediation: Cleaning Up Contaminated Sites

## Cleanup Plans for the ASARCO Site, El Paso

<b>Location</b>	ASARCO Smelter Site, El Paso, El Paso County, TX
<b>Chemicals of Concern</b>	Lead, Arsenic, Cadmium, Chromium, Copper, Iron, Selenium, Zinc.
<b>Media of Concern</b>	Soil, Groundwater
<b>Project Contact:</b>	James Sher, P.E. E-mail
<b>Community Relations Liaison:</b>	John Flores (English/Spanish) E-mail
<b>Last Update Date</b>	April 20, 2009



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